

# STENT DELIVERY SYSTEM WITH HYDRAULIC DEPLOYMENT

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## ABSTRACT

5           A hydraulic stent and stent graft delivery system utilizing at least two different structural materials to effectuate the easy retention and release of the stent and stent graft, while maintaining structural and sealing integrity for a pressurizable fluid chamber. An anti kinking spacer is disclosed which prevents buckling/kinking of the otherwise unsupported sheath containment section when the catheter assembly is bent such as for  
10 insertion a movement to the delivery site. A configuration according to the invention provides a flexible small or dual diameter delivery system that uses fluid pressure within the catheter to retract the stent/stent graft containment sheath and allow the delivery and deployment of the stent/stent graft.